



# Federal Emergency Management Agency

Washington, D.C. 20472

**NOV 12 2004**

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Don Knabe  
Chairman, Los Angeles County  
Board of Supervisors  
500 West Temple Street, Room 866  
Los Angeles, CA 90012

IN REPLY REFER TO:

Case No.: 04-09-1388P  
Community Name: Los Angeles County, CA  
Community No.: 065043  
Effective Date of This Revision: **MAR 10 2005**

Dear Mr. Knabe:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Oakland, California, at (510) 627-7103, or the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Sincerely,

Max H. Yuan, P.E., Project Engineer  
Hazard Identification Section  
Mitigation Division  
Emergency Preparedness  
and Response Directorate


For: Doug Bellomo, P.E., CFM, Acting Chief  
Hazard Identification Section  
Mitigation Division  
Emergency Preparedness  
and Response Directorate

List of Enclosures:

Letter of Map Revision Determination Document  
Annotated Flood Insurance Rate Map  
Annotated Flood Insurance Study Report

cc: The Honorable James C. Ledford, Jr.  
Mayor, City of Palmdale

Mr. Rod H. Kubomoto  
Assistant Deputy Director  
Watershed Management Division  
Department of Public Works  
County of Los Angeles

 P.E.  
Vice President – Stormwater Division  
Pacific Advanced Civil Engineering, Inc.



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

### COMMUNITY AND REVISION INFORMATION

### PROJECT DESCRIPTION

### BASIS OF REQUEST

#### COMMUNITY

Los Angeles County  
California  
(Unincorporated Areas)

BRIDGE  
CULVERT  
CHANNELIZATION

HYDROLOGIC ANALYSIS  
HYDRAULIC ANALYSIS  
NEW TOPOGRAPHIC DATA

COMMUNITY NO.: 065043

#### IDENTIFIER

Amargosa Dam

APPROXIMATE LATITUDE & LONGITUDE: 34.570, -118.121  
SOURCE: USGS QUADRANGLE DATUM: NAD 83

#### FLOODING SOURCE(S) & REVISED REACH(ES)

Amargosa Creek – from just upstream of the Antelope Valley Freeway to 80th Street West

### SUMMARY OF REVISIONS

Effective Flooding:	Zone A	Zone AO	No BFEs*	BFEs*
Revised Flooding:	Zone AE	Zone AE	BFEs	BFEs
Increases:	YES	YES	YES	YES
Decreases:	NONE	YES	NONE	YES

\* BFEs – Base Flood Elevations

### ANNOTATED MAPPING ENCLOSURES

### ANNOTATED STUDY ENCLOSURES

TYPE: FIRM\* NO.: 065043 0236 B Date: December 2, 1980  
TYPE: FIRM NO.: 065043 0240 B Date: December 2, 1980  
TYPE: FIRM NO.: 065043 0245 C Date: March 30, 1998

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: July 6, 1998  
SUMMARY OF DISCHARGES TABLE: 1  
PROFILES: 190P, 191P, and 192P

\* FIRM – Flood Insurance Rate Map; \*\* FBFM – Flood Boundary and Floodway Map; \*\*\* FHBM – Flood Hazard Boundary Map

## DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2677 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

*MLK 10 Lym*  
Max H. Yuan, P.E., Project Engineer  
Hazard Identification Section  
Mitigation Division

Emergency Preparedness and Response Directorate

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**Federal Emergency Management Agency**

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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)****OTHER COMMUNITIES AFFECTED BY THIS REVISION****CID Number:** 060144      **Name:** City of Palmdale, California**AFFECTED MAP PANELS**

TYPE: FIRM	NO.: 060144 0005 D	Date: March 30, 1998
TYPE: FIRM	NO.: 060144 0010 D	Date: March 30, 1998
TYPE: FIRM	NO.: 060144 0020 D	Date: March 30, 1998

**AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT**

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: March 30, 1998  
SUMMARY OF DISCHARGES TABLE: 1  
PROFILES: 12P, 13P, and 14P

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2677 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

*ML 10 Lyn*

Max H. Yuan, P.E., Project Engineer  
Hazard Identification Section  
Mitigation Division

Emergency Preparedness and Response Directorate

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**Federal Emergency Management Agency**

Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)****COMMUNITY INFORMATION****APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION**

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the modified channel and culvert rests with your community. We may request that your community submit a description and schedule of channel and culvert activities.

**COMMUNITY REMINDERS**

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2677 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

*MHC 10 C/M*

Max H. Yuan, P.E., Project Engineer  
Hazard Identification Section  
Mitigation Division

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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)****COMMUNITY INFORMATION (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Sally M. Ziolkowski  
Director, Federal Insurance and Mitigation Division  
Federal Emergency Management Agency, Region IX  
1111 Broadway Street, Suite 1200  
Oakland, CA 94607-4052  
(510) 627-7103

**STATUS OF THE COMMUNITY NFIP MAPS**

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2677 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### PUBLIC NOTIFICATION OF REVISION

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below.

#### LOCAL NEWSPAPER

Name: *Los Angeles Times*

Dates: 12/02/2004 12/09/2004

### PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
Amargosa Creek	Approximately 1,500 feet upstream of Antelope Valley Freeway*	1*	2,672	060144 0010 D
	Approximately 37,000 feet upstream of Antelope Valley Freeway*	None	2,954	060144 0005 D

\*Depth above ground, rounded to nearest whole foot

\*City of Palmdale

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2677 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

*MLK 10 Lynn*

Max H. Yuan, P.E., Project Engineer

Hazard Identification Section

Mitigation Division

Emergency Preparedness and Response Directorate

102929 10.1.1.04091388

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CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF PALMDALE AND THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY, CALIFORNIA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On March 30, 1998, and July 6, 1998, respectively, the Department of Homeland Security's Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Palmdale and in the unincorporated areas of Los Angeles County, California, through issuance of Flood Insurance Rate Maps (FIRMs). The Mitigation Division has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in these communities is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRMs for the communities.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate the effects of a new hydrologic analysis and new topographic data and has resulted in increases and decreases in SFHA width and increased and decreased BFEs for Amargosa Creek. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)	Modified BFE (feet)*
<sup>1</sup> Approximately 1,500 feet upstream of Antelope Valley Freeway	1 <sup>#</sup>	2,672
<sup>1</sup> Approximately 37,000 feet upstream of Antelope Valley Freeway	None	2,954

\*National Geodetic Vertical Datum, rounded to nearest whole foot

<sup>#</sup>Depth above ground, rounded to nearest whole foot

<sup>1</sup>City of Palmdale

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable James C. Ledford, Jr.  
Mayor, City of Palmdale  
38300 North Sierra Highway  
Palmdale, CA 93550-4798

OR

The Honorable Don Knabe  
Chairman, Los Angeles County  
Board of Supervisors  
500 West Temple Street, Room 866  
Los Angeles, CA 90012

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Table 4. Summary of Discharges

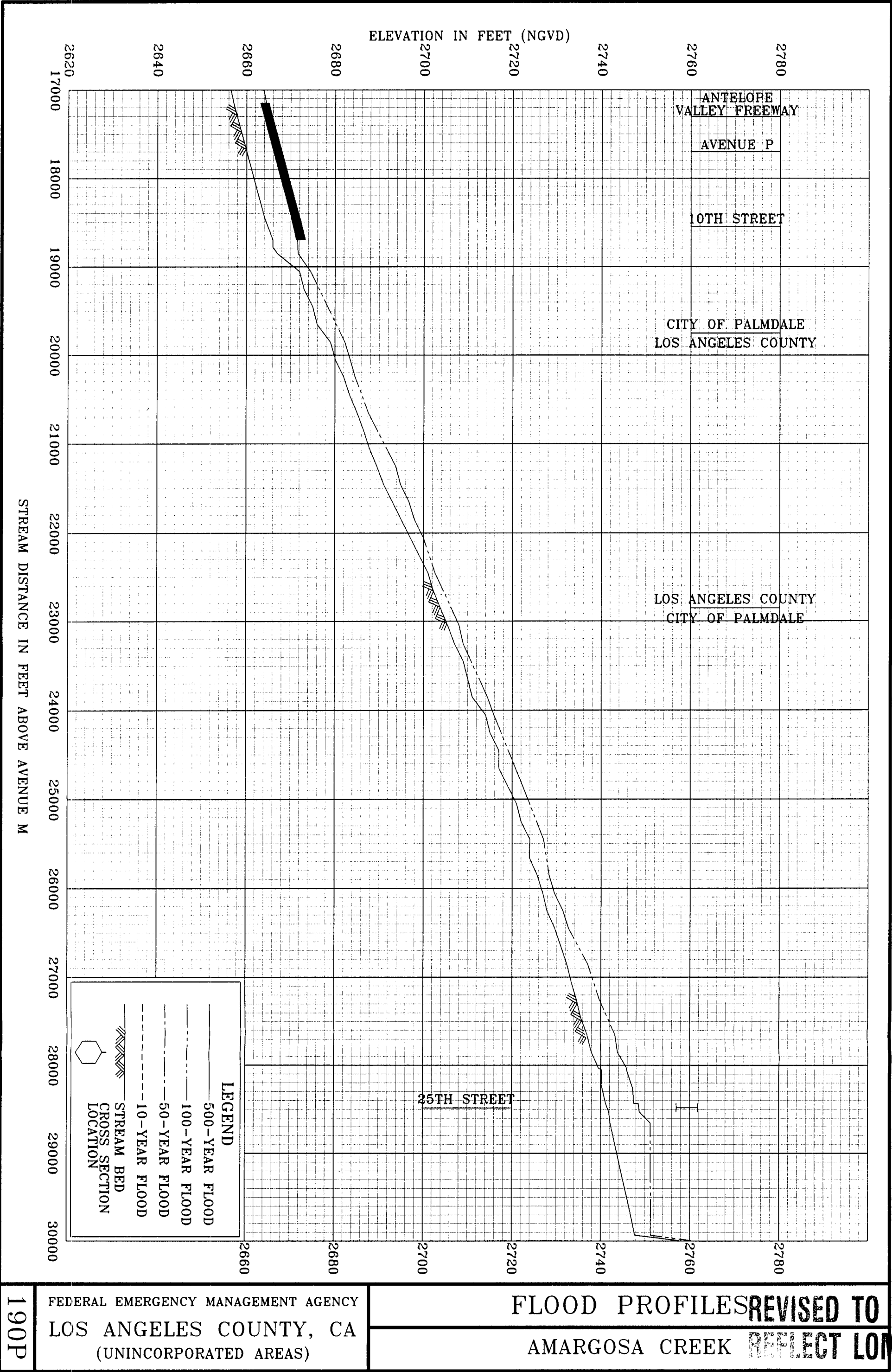
Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second)			
		10-Year	50-Year	100-Year	500-Year
Little Rock Wash Little Rock Reservoir	48.0	*	*	20,000	*
Amargosa Creek					
At outlet of Ritter Ranch Detention Pond	23.8	*	*	1,856	*
At Vineyard Road	26.5	*	*	2,063	*
At Elizabeth Lake Ford Crossing	28.6	*	*	2,288	*
At 25th Street West Bridge	30.0	*	*	2,341	*
At 10th Street West	32.0	*	*	2,364	*
Big Rock Wash					
At mouth, southwest	23.0	*	*	15,000	*
Anaverde Creek					
Antelope Freeway	16.35	*	*	3,730	*
1.85 miles D/S of California Aqueduct	15.66	*	*	3,630	*
1.47 miles D/S of California Aqueduct	12.79	*	*	3,200	*
0.75 miles D/S of California Aqueduct	11.79	*	*	3,050	*
California Aqueduct	8.25	*	*	2,440	*
Amargosa Creek Tributary					
Avenue M and Valleyline Drive	1.8	120	340	460	850
Anaverde Creek Tributary					
Division Street Between Avenue P and Avenue P-8	1.4	300	1,100	1,600	3,000

\*Data Not Determined

The preliminary flood depths for Amargosa Creek, Amargosa Creek Tributary, Anaverde Creek, and Anaverde Creek Tributary were determined by routing peak discharges through the community using the boundaries of the alluvial fans, historical records (References 3, 4, 5, and 6), and field reviews. Average depths of flooding were assigned based on standard hydraulic calculations through irregular cross sections. In many cases, the assigned average depth is not representative of the true degree of flood hazard. This situation occurs where average depths are based on a wide cross section which encompasses one or more lowflow drainage courses. The actual depth of flooding and, consequently, the true flood hazard will be greater adjacent to the drainage course.

Features that cause changing flow depths, such as changing ground slope or obstructions, were considered. In all cases, the changes in flow depth caused by these features were deemed to be insignificant, and backwater calculations were not used.

Topographic and cross-section data were compiled from topographic maps prepared by the County Engineer (References 9 and 10).

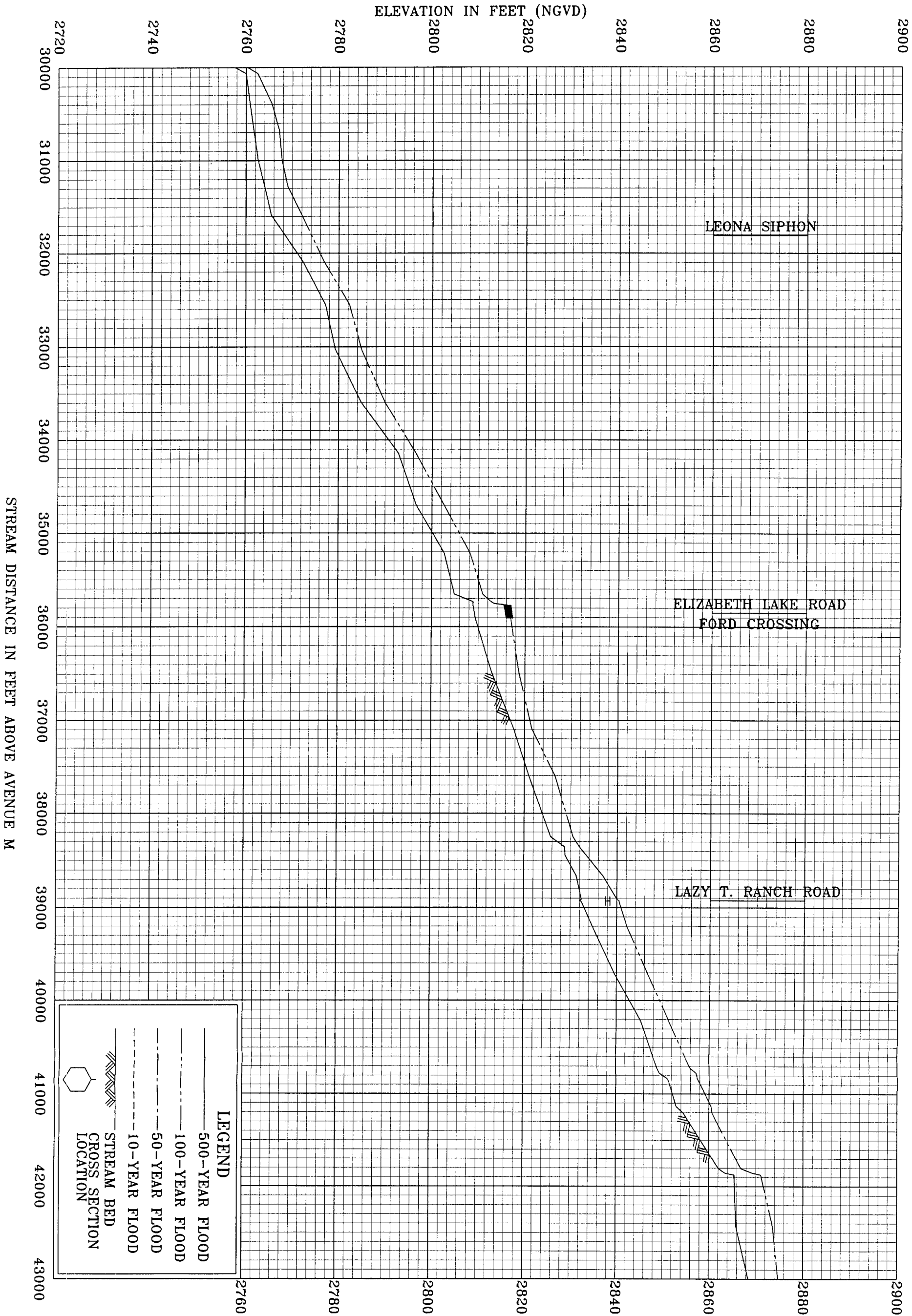


190P

FEDERAL EMERGENCY MANAGEMENT AGENCY  
LOS ANGELES COUNTY, CA  
(UNINCORPORATED AREAS)

FLOOD PROFILES **REVISED TO**  
AMARGOSA CREEK **REFLECT LOMR**

MAR 10 2005

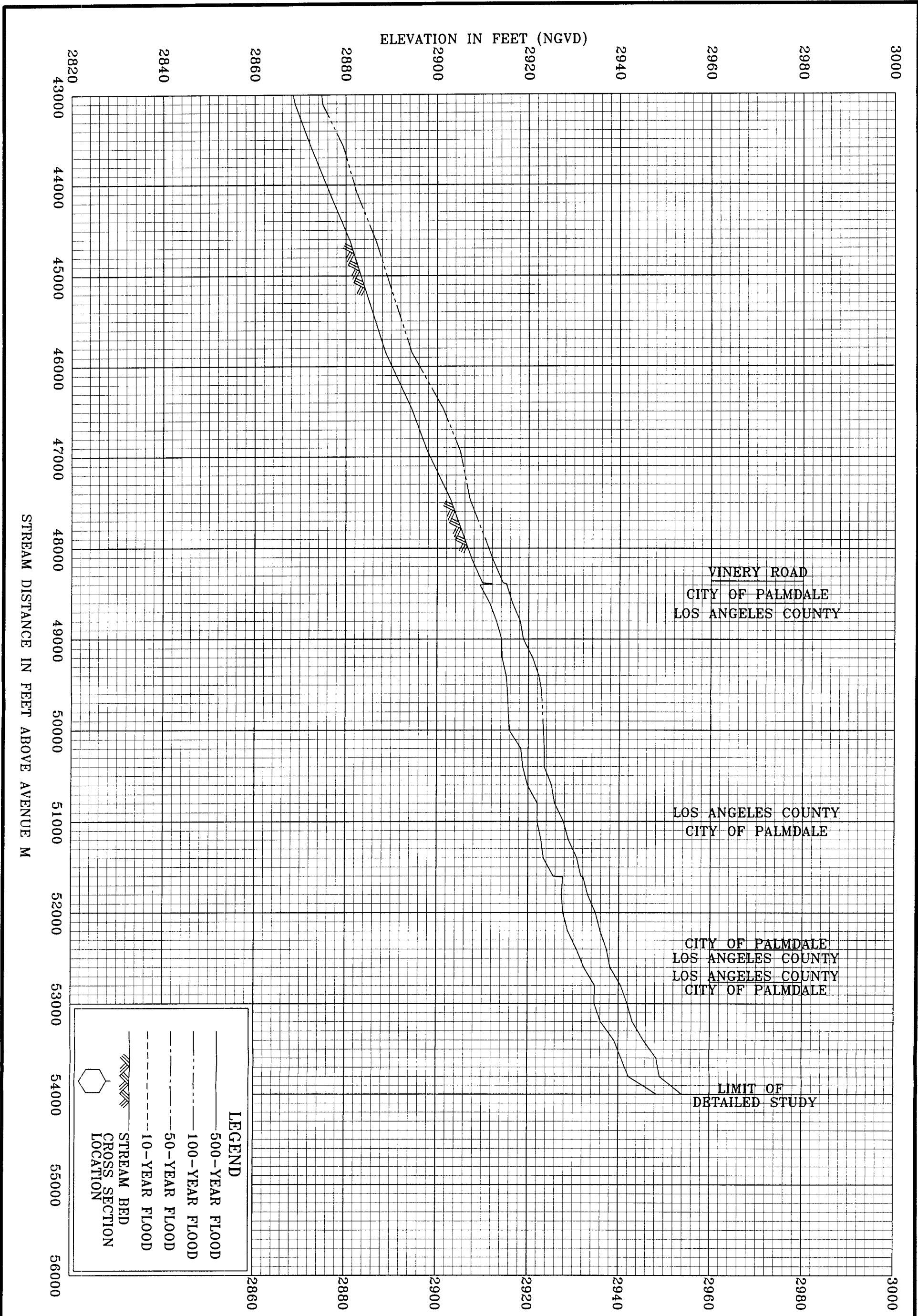


191P

FEDERAL EMERGENCY MANAGEMENT AGENCY  
LOS ANGELES COUNTY, CA  
(UNINCORPORATED AREAS)

FLOOD PROFILES  
AMARGOSA CREEK

REMOVED TO  
FLOOD OF LOWR  
W/L



**LEGEND**

- 500-YEAR FLOOD
- 100-YEAR FLOOD
- 50-YEAR FLOOD
- 10-YEAR FLOOD
- STREAM BED
- CROSS SECTION LOCATION

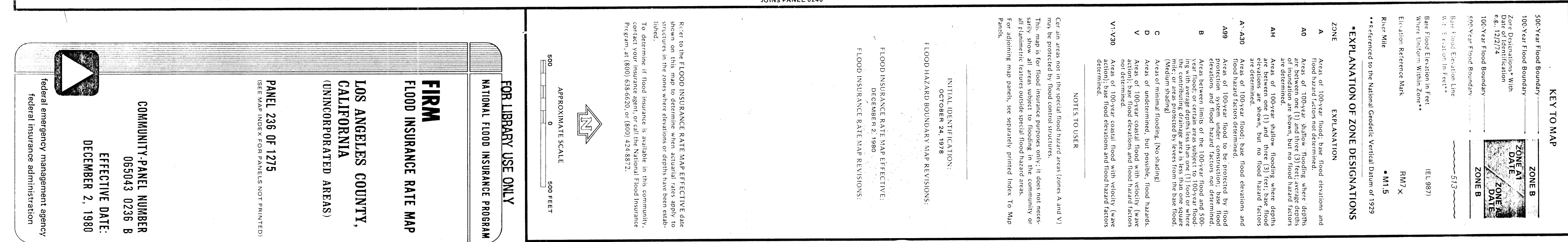
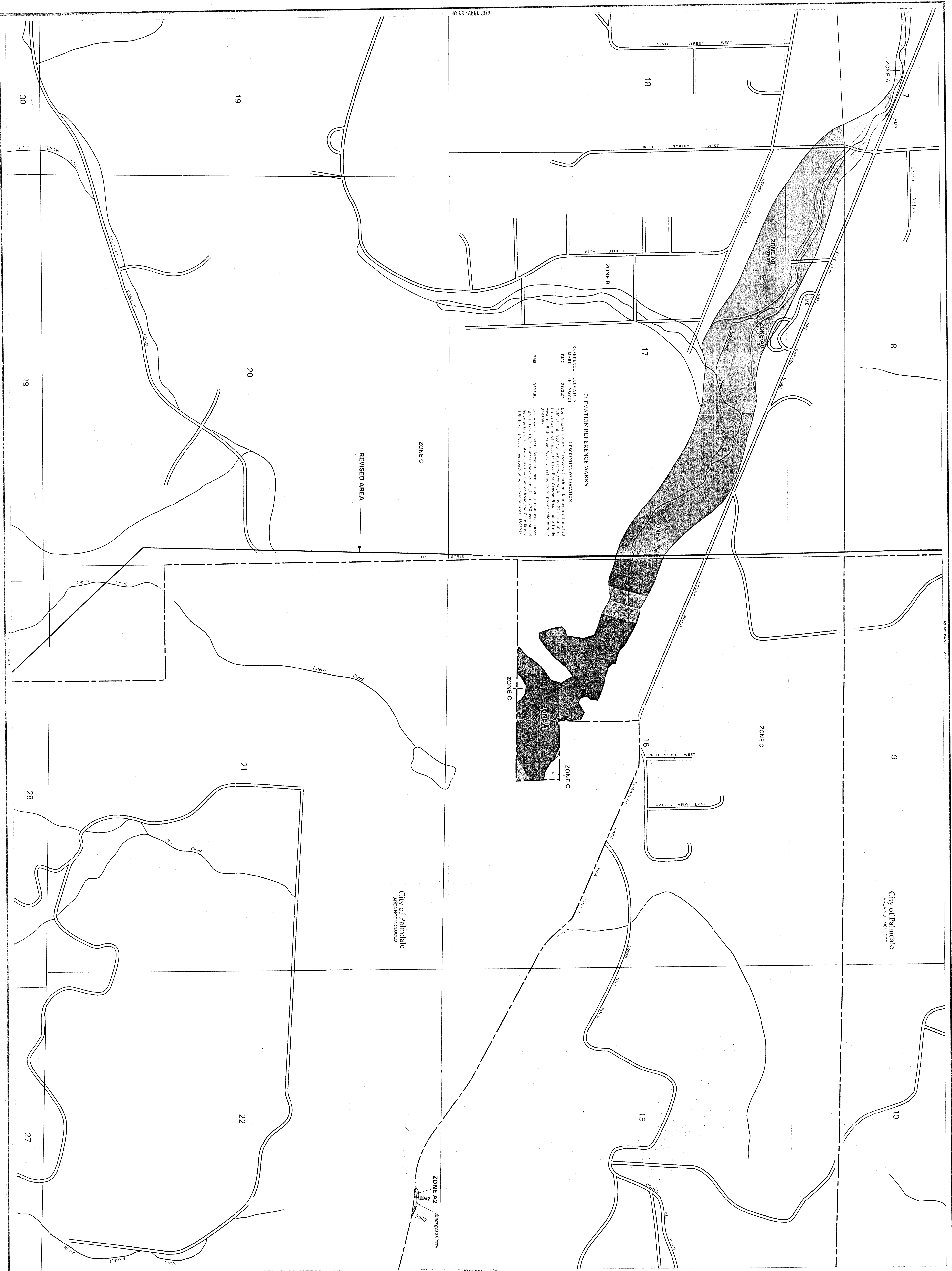
192P

FEDERAL EMERGENCY MANAGEMENT AGENCY  
LOS ANGELES COUNTY, CA  
(UNINCORPORATED AREAS)

FLOOD PROFILES  
AMARGOSA CREEK

MAR 10 2005

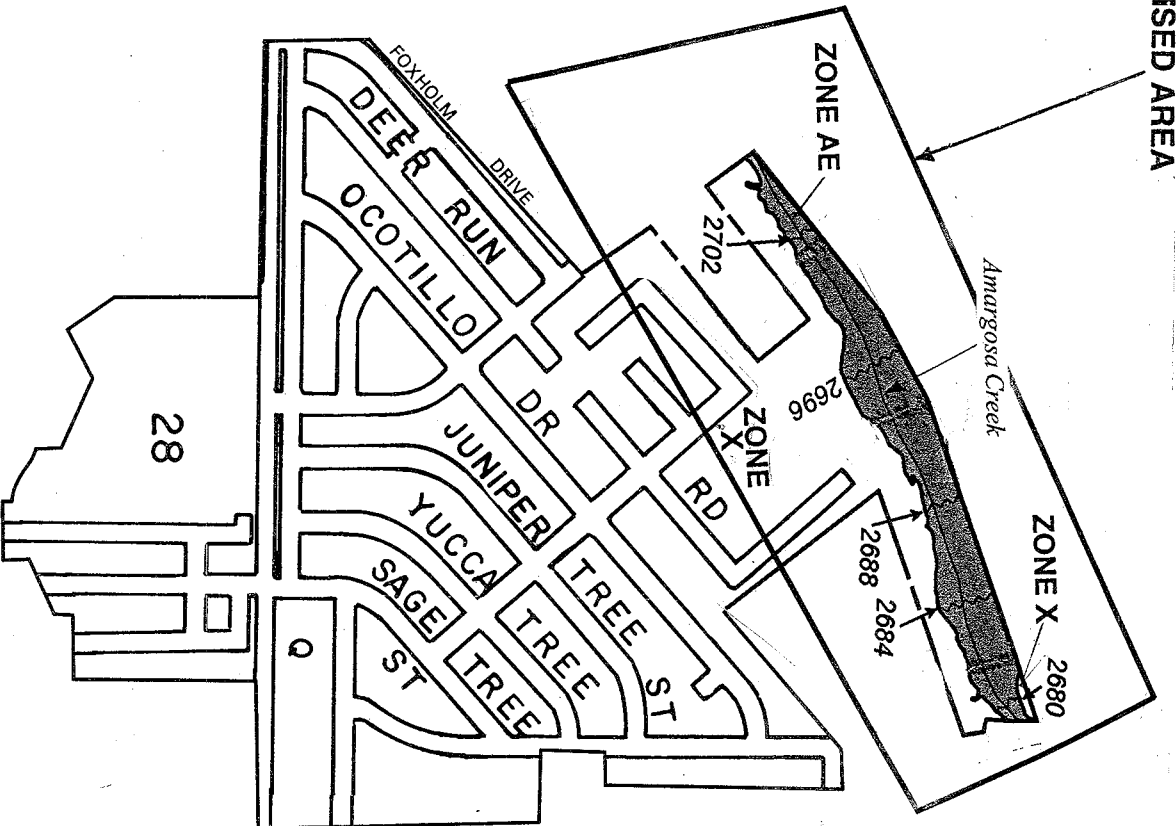




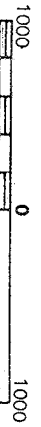




REVISED AREA



APPROXIMATE SCALE IN FEET



City of Palmdale  
AREA NOT INCLUDED

<b>NATIONAL FLOOD INSURANCE PROGRAM</b>	
<b>FIRM</b> <b>FLOOD INSURANCE RATE MAP</b>	
LOS ANGELES COUNTY, CALIFORNIA (UNINCORPORATED AREAS)	
PANEL 245 OF 1275 <small>(SEE MAP INDEX FOR PANELS NOT PRINTED)</small>	<b>REVISED TO</b> RE-1501-10-0000 MAR 10 2015
COMMUNITY-PANEL NUMBER 065043 0245 C MAP REVISED: MARCH 30, 1998	
Federal Emergency Management Agency	